

**Ticks and Tick-Borne Diseases Publications
From the Vector-Borne Disease Section
California Department of Public Health
1998 - 2014**

Vector-Borne Disease Section authors indicated by bold font

2014

Padgett K, Bonilla D, Kjemtrup A, Vilcins I, Yoshimizu M, Hui L, Sola, M, Quintana M, Kramer, V. Large scale spatial risk and comparative prevalence of *Borrelia miyamotoi* and *Borrelia burgdorferi* sensu lato in *Ixodes pacificus*. PLoS ONE 2014; 9(10): e110853. doi:10.1371/journal.pone.0110853.

Brummitt SI, Barbour AG, Hue F, **Kjemtrup AM**. Molecular characterization of *Borrelia burgdorferi* from case of autochthonous Lyme arthritis. Emerging Infectious Diseases Journal 2014; 20 (12): 2168-2169 doi:<http://dx.doi.org/10.3201/eid2012.140655>.

Salkeld DJ, Castro MB, Bonilla, D, Kjemtrup, A, Kramer VL, Lane, RS, Padgett. KA. Seasonal activity patterns of the western black-legged tick, *Ixodes pacificus*, in relation to onset of human Lyme disease in northwestern California. Ticks and Tick-borne Diseases 2014; 5:790-796.

2013

Johnston SH, Glaser CA, **Padgett KA**, Wadford DA, Espinosa A, Espinosa N, Eremeeva ME, Tait K, Hobson B, Shtivelman S, Hsieh C, Messenger SL. *Rickettsia* sp. 364D causing a cluster of eschar-associated illness, California. Pediatric Infectious Disease Journal. 2013 Sep; 32(9):1036-9. doi: 10.1097/INF.0b013e318296b24b.

Salkeld DJ, Padgett KA, Jones JH. A meta-analysis suggesting that the relationship between biodiversity and risk of zoonotic pathogen transmission is idiosyncratic. Ecology Letters. 2013 May; 16(5):679-86. Doi: 10.1111/ele.12101.

2011

Beeler E, Abramowitz KF, Zambrano ML, Sturgeon MM, Khalaf N, **Hu R**, Dasch GA, Eremeeva ME. A focus on dogs and *Rickettsia massiliae*-infected *Rhipicephalus sanguineus* in California. American Journal of Tropical Medicine and Hygiene. 2011; 84: 244-249.

Bloch EM, Herwaldt BL, Leiby DA, Shaieb A, Herron RM, Chervenak M, Reed W, Hunter R, Ryals R, Hagar W, Xayavong MV, Slemenda SB, Pieniazek NJ, Wilkins PP, **Kjemstrup AM**. The third described case of transfusion-transmission of *Babesia duncani*. Transfusion. 2011; doi: 10.1111/j.1537-2995.2011.03467.x Article first published online 13 DEC 2011.

Padgett KA, Bonilla DL. Novel exposure sites for nymphal *Ixodes pacificus* within picnic areas. Ticks and Tick-Borne Diseases. 2011; 2: 191-195.

Wright SA, **Tucker JR**, Donohue AM, **Castro MB**, Kelly KL, **Novak MG**, Macedo PA. Avian hosts of *Ixodes pacificus* (Acari: Ixodidae) and detection of *Borrelia burgdorferi* in larvae feeding on Oregon junco. Journal of Medical Entomology. 2011; 48(4): 852-859.

2010

Shapiro MR, **Fritz CL**, Tait K, Paddock CD, Nicholson WL, Abramowicz KF, Karpathy SE, Dasch GA, Sumner JW, Adem PV, Scott JJ, **Padgett KA**, Zaki SR, Eremeeva ME. *Rickettsia* 364D: A newly recognized cause of eschar-associated illness in California. Clinical Infectious Diseases 2010; 50:541-8.

2009

Fritz CL. Emerging tick-borne diseases. Veterinary Clinics of North America: Small Animal Practice 2009; 39(2):265-278.

Padgett KA, Casher L, Stephens S, Lane RS. Effect of prescribed burn for tick control in California chaparral. Journal of Medical Entomology 2009; 46(5):1138-1145.

Schwan TG, Raffel SJ, Schrumpf ME, Webster LS, Marques AR, Spano R, Rood M, **Burns J, Hu R.** Tick-borne relapsing fever and *Borrelia hermsii*, Los Angeles County, California, USA. Emerging Infectious Diseases 2009; 15:1026-1031.

2008

Chigerwe M, **Fritz CL, Kjemstrup AM**. Heartwater (Cowdriosis). In: Haskell SRR, ed. Blackwell's Five Minute Veterinary Consult: Ruminant Wiley-Blackwell Press, Ames, Iowa: 2008; 392-393.

Kjemstrup AM, Fritz CL. Lyme borreliosis. In: Haskell SRR, ed. Blackwell's Five Minute Veterinary Consult: Ruminant. Wiley-Blackwell Press, Ames, Iowa: 2008; 498-499.

Salkeld DJ, Leonhard S, Girard YA, Hahn N, Mun J, **Padgett KA**, Lane RS. Identifying the reservoir hosts of the Lyme disease spirochete *Borrelia burgdorferi* in California: the role of the western gray squirrel (*Sciurus griseus*). American Journal of Tropical Medicine and Hygiene 2008; 79:535-40.

Wikswo ME, **Hu R**, Dasch GA, **Krueger L**, Arugay A, Jones K, Hess B, Bennett S, **Kramer V**, Eremeeva ME. Detection and identification of spotted fever group rickettsiae in *Dermacentor* species from southern California. Journal of Medical Entomology 2008; 45:509-16.

2007

Castro MB, Wright SA. Vertebrate hosts of *Ixodes pacificus* (Acari: Ixodidae) in California. Journal of Vector Ecology 2007; 32:140-149.

Kjemtrup AM. Surveillance for vector-borne diseases in California. Proceedings of the 23rd Annual Vertebrate Pest Conference. (R.M. Timm and J.M. O'Brien, Eds.) 2007; pp 304-307.

Metzger ME, Hu R. Brown dog tick: A potential vector for Rocky Mountain spotted fever in California. Proceedings and Papers of the 75th Annual Conference of the Mosquito and Vector Control Association of California 2007; 75:100-101.

Wikswo ME, **Hu R**, **Metzger ME**, Eremeeva ME. Detection of *Rickettsia rickettsii* and *Bartonella henselae* in *Rhipicephalus sanguineus* ticks from California. Journal of Medical Entomology 2007; 44:158-161.

2006

Conrad PA, **Kjemtrup AM**, Carreno RA, Thomford JT, Wainwright K, Eberhard M, Quick R, Telford SR III, Herwaldt BL. Description of *Babesia duncani* n. sp. (Apicomplexa: Babesiidae) from humans and its differentiation from other piroplasms. International Journal for Parasitology 2006; 36 (7):779-789.

Eisen RJ, Lane RS, **Fritz CL**, Eisen L. Spatial patterns of Lyme disease risk in California based on disease incidence data and modeling of vector-tick exposure. American Journal of Tropical Medicine & Hygiene 2006; 75:669-676.

Kjemtrup AM, Conrad PA. A review of the small canine piroplasms from California: *B. conradae* in the literature. Veterinary Parasitology 2006; 138:112-117.

Kjemtrup AM, Wainwright K, Miller M, Penzhorn BL, Carreno RA. *Babesia conradae*, sp. Nov., a small canine *Babesia* identified in California. Veterinary Parasitology 2006; 138:103-111.

Wright SA, Lemenager DA, **Tucker JR**, Armijos MV, Yamamoto SA. An avian contribution to the presence of *Ixodes pacificus* (Acari: Ixodidae) and *Borrelia burgdorferi* on the Sutter Buttes of California. Journal of Medical Entomology 2006; 43:368-374.

2005

Fritz CL, Bronson LR, Smith CR, Crawford-Miksza L, Yeh E, Schnurr D. Clinical, epidemiologic, and environmental surveillance for ehrlichiosis and anaplasmosis in an endemic area of northern California. Journal of Vector Ecology 2005; 30:4-10.

2004

Fritz CL, Bronson LR, Smith CR, Schriefer ME, **Tucker JR**, Schwan TG. Isolation and characterization of *Borrelia hermsii* associated with two foci of tick-borne relapsing fever in California. Journal of Clinical Microbiology 2004; 42(3):1123-1128.

Hu R, Murray H, Hess B, **Walker TW**, **Linthicum KJ**. Seasonal abundance of adult *Ixodes pacificus* in the San Jacinto Mountains, Riverside County. Proceedings and Papers of the Seventy-Second Annual Conference of the Mosquito and Vector Control Association of California 2004; 72:73-76.

Hu R, Spano R, Rood M, **Walker TW**, **Linthicum KJ**. Temporal distribution of adult *Ixodes pacificus* at Griffith Park, Los Angeles County. Proceedings and Papers of the Seventy-Second Annual Conference of the Mosquito and Vector Control Association of California 2004; 72:61-62.

Hui LT, Castro MB, Clover J, Thompson MA, Husted S. Summary of *Ixodes pacificus* surveillance and testing for *Borrelia burgdorferi* in California. Proceedings and Papers of the Seventy-Second Annual Conference of the Mosquito and Vector Control Association of California 2004; 72:77-83.

Johnson JL, Ginsberg HS, Zhioua E, Whitworth UG, Markowski D, Hyland KE, **Hu R**. Passive tick surveillance, dog serology, and incidence of human Lyme disease. Vector-borne and Zoonotic Diseases 2004; 4(2):137-142.

Kjemtrup AM. Physician response to tick-borne disease questionnaire. Medical Board of California Action Report 2004; February: 8-9.

Walker TW, Hu R, Linthicum KJ, Metzger ME, Frederickson S, Molina L. Preventive measures for reducing the risk of tick-borne relapsing fever in Mono and Inyo Counties, California. Proceedings and Papers of the Seventy-Second Annual Conference of the Mosquito and Vector Control Association of California 2004; 72:58-60.

2003

Conrad PA, Miller M, **Kjemtrup AM**, Smith WA, Garner IA. The human-wildlife-domestic animal interface provides exciting research opportunities for parasitologists. Journal of Parasitology 2003; 89 (Suppl.):527-536.

Eisen RJ, Eisen L, **Castro MB**, Lane RS. Environmentally related variability in risk of exposure to Lyme disease spirochetes in northern California: Effect of climatic conditions and habitat type. Environmental Entomology 2003; 32:1010-1018.

Fritz CL, Kjemtrup AM. Zoonosis Update: Lyme borreliosis. Journal of the American Veterinary Medical Association 2003; 223:1261-70.

Hu R, Walker TW, Linthicum K. A regional-based study to evaluate Lyme disease transmission risk in southern California. Proceedings and Papers of the Seventy-First Annual Conference of the Mosquito and Vector Control Association of California, 2003; 71: 54-57.

Walker TW, Hu R, Linthicum KJ, Frederickson S, Molina L, Luna MG, Barbour AG. Ecological conditions associated with tick-borne relapsing fever in Inyo and Mono counties, California, 2000-2002. Proceedings and Papers of the Seventy-First Annual Conference of the Mosquito and Vector Control Association of California, 2003; 64-68.

2002

Dworkin MS, Shoemaker PC, **Fritz CL**, Dowell ME, Anderson DE Jr. The epidemiology of tick-borne relapsing fever in the United States. American Journal of Tropical Medicine & Hygiene 2002; 66:753-8.

2001

Castro MB, Nicholson WL, **Kramer VL**, Childs JE. Persistent infection in *Neotoma fuscipes* (Muridae: Sigmodontinae) with *Ehrlichia phagocytophila* sensu lato. American Journal of Tropical Medicine and Hygiene 2001; 65:261-267.

Irizarry-Rovira AR, Stephens J, Christian J, **Kjemtrup AM**, DeNicola DB, Widmer WR, Conrad PA. *Babesia gibsoni* infection in a dog from Indiana. Veterinary Clinical Pathology 2001; 30:180-8.

Fritz, CL, Vugia, DJ. Clinical issues in Lyme borreliosis: a California perspective. *Infectious Disease Review* 2001; 3(3):111-122.

Kjemtrup AM, Conrad PA. Emerging perspectives on human Babesiosis. In Scheld WM, Craig WA, Hughes JM, eds. *Emerging Infections 5*. Washington, D. C. 2001 ASM Press; 175-196.

Kjemtrup AM, Robinson T, Conrad PA. Description and epidemiology of *Theileria youngi* n. sp. from a northern Californian Dusky-footed woodrat (*Neotoma fuscipes*) population. *Journal of Parasitology* 2001; 87:373-8.

Kocan AA, Meinkoth J, Whitworth LC, **Kjemtrup AM**, Murphy GL, Decker L, Lorenz M. A genotypically unique *Babesia gibsoni*-like parasite recovered from a dog in Oklahoma. *Journal of Parasitology* 2001; 87:437-8.

Penzhorn BL, **Kjemtrup AM**, Lopez-Rebollar LM, Conrad PA. *Babesia leo* n. sp from lions in the Kruger National Park, South Africa, and its relation to other small piroplasms. *Journal of Parasitology* 2001; 87:681-5.

2000

Hu R, Durden LA, Oliver JH. Winter ectoparasites of mammals in the northeastern Piedmont area of Georgia. *Journal of Vector Ecology* 2000; 25:23-7.

Hu R, Rowley WA. Relationship between blood intake of the nymphal stage and resultant sexes in *Ixodes scapularis* and *Dermacentor variabilis* ticks (Acari: Ixodidae). *Journal of Medical Entomology* 2000; 37:198-200.

Hyland KE, Bernier J, Markowski D, MacLachlan A, Amr Z, Pitocchelli J, Myers J, **Hu R**. Records of ticks (Acari:Ixodidae) parasitizing birds (Aves) in Rhode Island, USA. *International Journal of Acarology* 2000; 26:183-92.

Pusterla N, Chang C, Chomel B, Chae J, Foley J, DeRock E, **Kramer V**, Lutz H, Madigan J. Serologic and molecular evidence of *Ehrlichia* spp. in coyotes in California. *Journal of Wildlife Diseases* 2000; 36:494-9.

Wright SA, **Thompson MA**, Miller MJ, Knerl KM, Elms SL, Karpowicz JC, Young JF, **Kramer VL**. Ecology of *Borrelia burgdorferi* in ticks (Acari: Ixodidae), rodents, and birds in the Sierra Nevada foothills, Placer County, California . *Journal of Medical Entomology* 2000; 37:909-18.

1999

Kramer VL, Randolph MP, **Hui LT**, Irwin WE, Gutierrez AG, Vugia DJ. Detection of the agents of human ehrlichioses in ixodid ticks from California. American Journal of Tropical Medicine & Hygiene 1999; 60:62-5.

Hui LT, Pontiflet E, Scott HA. Habitat and seasonal abundance of ticks in urban recreation areas of Alameda County, California, 1992-1996. Proceedings of the California Mosquito and Vector Control Association 1999; 66:56-66.

Monson SE, **Bronson LR**, **Tucker JR**, **Smith CR**. Experimental and field evaluations of two acaricides for control of *Ixodes pacificus* (Acari: Ixodidae) in Northern California. Journal of Medical Entomology 1999; 36:660-5.

Nicholson WL, **Castro MB**, **Kramer VL**, Sumner JW, Childs JE. Dusky-footed wood rats (*Neotoma fuscipes*) as reservoirs of granulocytic ehrlichiae (Rickettsiales: Ehrlichiae) in Northern California. Journal of Clinical Microbiology 1999; 37:3323-7.

1998

Campbell G, **Fritz C**, Fish D, Nowakowski J, Nadelman, R, Wormser G. Estimation of the incidence of Lyme disease. American Journal of Epidemiology. 1998; 148:1018-26.

Fritz C, Glaser C. Ehrlichiosis. In: Hughes, J., and J. Conte, eds. Infectious Disease Clinics of North America. 1998; 12(1):123-36.